BOSTON TRANSPORTATION DEPARTMENT

COMMONWEALTH AVENUE FROM KENMORE STREET TO ARLINGTON STREET

CONSTRUCTION CONTRACT

#XXXXXX

BOSTON, MA

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ALL WORK SHALL CONFORM TO THESE PLANS, THE BOSTON TRANSPORTATION DEPARTMENT STANDARDS AND SPECIFICATIONS, THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES DATED 1995, THE SUPPLEMENTAL SPECIFICATIONS DATED NOVEMBER 8, 2000, THE 1996 CONSTRUCTION AND TRAFFIC STANDARDS, THE SUPPLEMENTAL DRAWINGS DATED OCTOBER 25, 2000, THE OCTOBER 1997 MASSHIGHWAY WHEELCHAIR RAMP STANDARDS, THE 1968 STANDARD DRAWINGS FOR TRAFFIC SIGNALS AND HIGHWAY LIGHTING, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, 2003 EDITION, THE 1990 STANDARD DRAWINGS FOR SIGNS AND SUPPORTS, AND ALL INTERIM REVISIONS PUBLISHED BY AASHTO. WHERE CONFLICTS EXIST, THE BOSTON TRANSPORTATION DEPARTMENT STANDARDS AND SPECIFICATIONS SHALL GOVERN.



Base Prepared by:









PROJECT LOCATION

DESIGNED BY M. LANGONE

CHECKED BY E. MONGELLI
APPROVED BY W. SCHULTHEISS

CITY OF BOSTON TRANSPORTATION DEPARTMENT
ENGINEERING DIVISION
PAVEMENT MARKING AND SIGNAGE IMPROVEMENT PLANS

TITLE SHEET AND INDEX COMMONWEALTH AVENUE

BOSTON PROP

DISTRICT: 8

DATE: MAR. 2010 DRAWING NO. G-001 SHEET 1 OF 22

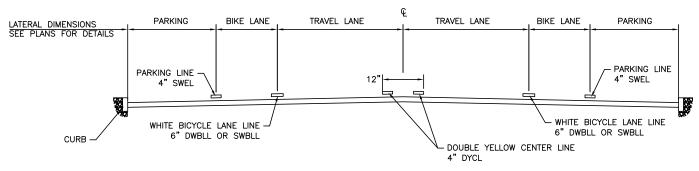
LOCUS PLAN

DIRECTOR OF ENGINEERING

DRAWING PREPARED BY TOOLE DESIGN GROUP

GENERAL NOTES

- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS. RULES. REGULATIONS AND SAFETY CODES IN THE CONSTRUCTION OF ALL IMPROVEMENTS. STRIPING WORK SHALL ALSO MEET ALL APPLICABLE REQUIREMENTS OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- BASE MAPPING WAS PREPARED FROM GIS DATA PROVIDED BY THE CITY OF BOSTON. STREET WIDTHS SHOWN REFLECT ACTUAL STREET WIDTHS AS MEASURED IN THE FIELD. GIS LINES DEPICTING EXISTING STREET CURB LOCATIONS MAY VARY COMPARED TO ACTUAL LOCATION IN THE FIELD.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO PLACING STRIPING OR SYMBOLS AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO START OF WORK. WHEN THESE PLANS ARE IN CONFLICT WITH ACTUAL SITE CONDITIONS, PROPOSED STRIPING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- PARKING AREAS SHOWN ARE APPROXIMATE LIMITS OF PARKING BASED UPON EXISTING SIGNED REGULATIONS, NOT ALL DRIVEWAYS ARE SHOWN ON THE DRAWINGS.
- FIRE HYDRANTS SHOWN ON THE DRAWINGS ARE BASED UPON FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL FIRE HYDRANT LOCATIONS. IF ADDITIONAL FIRE HYDRANTS ARE FOUND THE CONTRACTOR SHALL FOLLOW THE FIRE HYDRANT STRIPING DETAIL.
- 6. ALL PAVEMENT MARKINGS ARE THERMOPLASTIC UNLESS OTHERWISE NOTED.
- TEXT, ARROWS, BIKE LANE SYMBOLS AND SHARED LANE MARKING SYMBOLS SHALL BE WHITE. LONGITUDINAL LOCATIONS FOR BIKE LANE SYMBOLS AND SHARED LANE MARKINGS ARE APPROXIMATE UNLESS DIMENSIONS GIVEN. SEE DRAWINGS FOR SYMBOL LOCATIONS.
- WHERE PROPOSED PAVEMENT MARKINGS ARE SHOWN IN THE AREA OF EXISTING PAVEMENT MARKINGS, ERADICATE ANY CONFLICTING EXISTING MARKINGS.
- BUS STOP LOCATIONS AND DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL BUS STOPS AND LOCATIONS OF BUS STOP SIGNS INCLUDING CORRESPONDING NO PARKING LIMITS. IF ADDITIONAL BUS STOPS ARE IDENTIFIED, OR BUS STOPS DIMENSIONS DIFFER FROM THE DRAWINGS, SKIP LINE STRIPING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL NOT STRIPE A PARKING LINE
- 10. STRIPING PLANS SHOW SIGNING ASSOCIATED WITH BICYCLE LANES AND SHARED LANE MARKINGS. SIGNS WILL BE INSTALLED BY OTHERS.
- 11. THE CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL WALKS, GRADING, SIDEWALKS, AND FEATURES OUTSIDE OF THE LIMITS OF WORK AND SHALL REPAÍR AND REPLACE OR OTHERWISE MAKE GOOD AS DIRECTED BY THE ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE ANY SUCH OR OTHER DAMAGE SO CAUSED.
- 12 ALL SIGNS ARE TO BE INSTALLED OR RELOCATED BY BOSTON TRANSPORTATION STAFF ONLY



TYPICAL PAVEMENT MARKING PLACEMENT DETAIL NOT TO SCALE

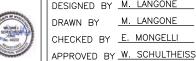
- 1. LATERAL PLACEMENT OF PAVEMENT MARKINGS ARE MEASURED TO:
 - A) ADJACENT FACE OF CURB
 - B) CENTERLINE OF LANE LINES
 - C) CENTER OF DOUBLE YELLOW CENTERLINES (OR ROADWAY)
- 2. LONGITUDINAL PAVEMENT MARKING DIMENSIONS ARE TYPICALLY
 MEASURED TO EXISTING OR PROPOSED PAVEMENT MARKING CROSSWALK OR STOP LINES OR PERPENDICULAR FACES OF CURB AS SHOWN IN THE DRAWINGS.
- 3. TRAVEL, BICYCLE, AND PARKING LANE WIDTHS ARE AS SHOWN ON THE DRAWINGS.
- 4. THE USE OF DOTTED OR SOLID LINES IS AS SHOWN ON THE DRAWINGS.













LEGEND AND ABBREVIATIONS

PROPOSED

÷√8

%+8

SWEL

SWLL

SWBLL

DWLL

DWBLL

SYEL

SYCL

_ _ BYCL _ _

DYCL

DDYCL

SWCHL

SYCHL

cw

BWLL _

BEGIN ERADICATION

END ERADICATION

FRADICATE SYMBOL

BIKE LANE SYMBOL

SHARROW SYMBOL

4" SOLID WHITE EDGE LINE

4" SOLID WHITE LANE LINE

6" SOLID WHITE BIKE LANE LINE

4" SOLID YELLOW EDGE LINE

4" SOLID YELLOW CENTER LINE

2-4" DOUBLE YELLOW CENTER LINES

8" SOLID WHITE CHANNELIZATION LINE

8" SOLID YELLOW CHANNELIZATION LINE

WHITE PAVEMENT ARROW AND LEGEND

(UNLESS OTHERWISE SHOWN)

NEW OR RELOCATED SIGN

EXISTING FIRE HYDRANT

4" BROKEN WHITE LANE LINE (10' MARK, 30' SPACE)

6" DOTTED WHITE BIKE LANE LINE (2' LINE, 4' SPACE)

4" BROKEN YELLOW CENTER LINE (10' MARK, 20' SPACE)

2-4" DOTTED YELLOW CENTER LINES (2' LINE, 4' SPACE)

COLORIZED PAVEMENT - MATERIAL AS SPECIFIED ON PLANS

12" WHITE STOP LINE (UNLESS OTHERWISE NOTED) 12" WHITE CROSSWALK (12" LONGITUDINAL LINES AT 4' O.C.)

12" GORE MARKINGS WITH SWCHL OR SYCHL (5' O.C. AT 45' UNLESS OTHERWISE NOTED)

4" DOTTED WHITE LANE LINE (2' LINE, 4' SPACE)

SIGN AND POST

EXISTING

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**(48)** 

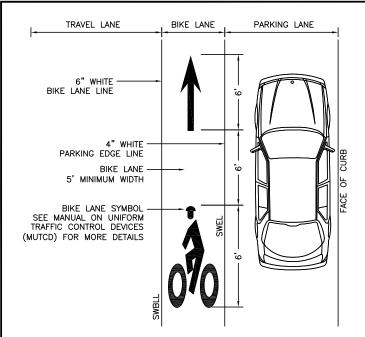
DESIGNED BY M. LANGONE DRAWN BY M. LANGONE CHECKED BY <u>E. MONGELLI</u>

CITY OF BOSTON TRANSPORTATION DEPARTMENT FNGINFFRING DIVISION PAVEMENT MARKING AND SIGNAGE IMPROVEMENT PLANS

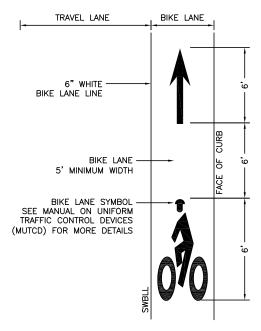
### **GENERAL NOTES AND LEGEND COMMONWEALTH AVENUE**

BOSTON PROPER

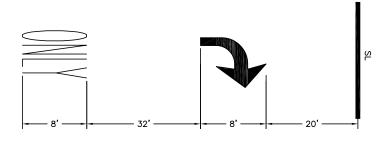
ARFA: DISTRICT: 8 DATE: MAR. 2010 DRAWING NO. G-002 SHEET 2 OF 22



TYPICAL BIKE LANE STRIPING ADJACENT TO PARKING



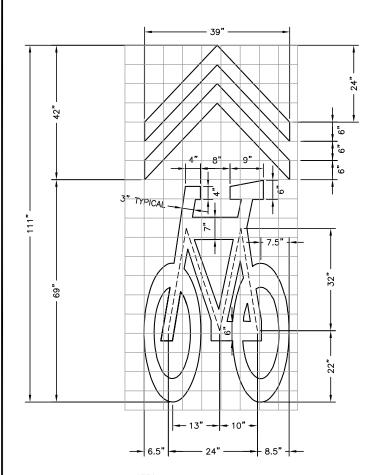
TYPICAL BIKE LANE STRIPING ADJACENT TO CURB NOT TO SCALE



PAVEMENT MARKING ARROW AND ONLY SYMBOL PLACEMENT NOT TO SCALE

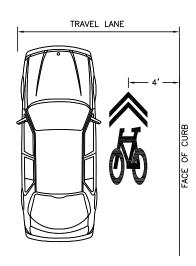
### BIKE LANE STRIPING NOTES:

- 1. DO NOT PLACE SYMBOLS ON LANE LINES.
- 2. PLACE BIKE LANE SYMBOLS WITHIN CENTER OF BIKE LANE.
- 3. SEE PLAN SHEETS FOR SYMBOL LOCATIONS.
- 4. TRAVEL AND PARKING LANE WIDTHS ARE AS SHOWN ON THE



- NOTES:
- ALL ROUNDED CORNERS HAVE A 1"
   RADIUS.
- 2. THE GRID IS 6"x6" SQUARES.

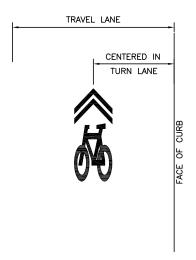
SHARED LANE SYMBOL DETAIL NOT TO SCALE



SHARED LANE SYMBOL PLACEMENT ADJACENT TO CURB WITHOUT PARKING NOT TO SCALE

# TRAVEL LANE PARKING LANE

SHARED LANE SYMBOL PLACEMENT ADJACENT TO PARKING NOT TO SCALE



SHARED LANE SYMBOL PLACEMENT IN TURN LANE NOT TO SCALE

### SHARED LANE SYMBOL NOTES:

- 1. IN LOCATIONS WITH ON-STREET PARKING, SHARED LANE MARKING SYMBOLS SHALL BE PLACED SO THAT THEIR CENTERS ARE A MINIMUM OF 11 FEET FROM THE ADJACENT FACE OF CURB UNLESS OTHERWISE NOTED ON THE PLANS.
- 2. IN LOCATIONS WITHOUT PARKING, SHARED LANE MARKING SYMBOLS SHALL BE PLACED SO THAT THEIR CENTERS ARE A MINIMUM OF 4 FEET FROM THE ADJACENT FACE OF CURB UNLESS OTHERWISE NOTED ON THE PLANS.
- 3. IF LOCATED IN A TURN LANE, SHARED LANE MARKING SYMBOLS SHALL BE CENTERED IN THE LANE.
- 4. DO NOT PLACE SYMBOLS ON LANE LINES.
- 5. SEE PLANS FOR SYMBOL LOCATIONS.



Base Prepared by:





DESIGNED BY M. LANGONE DRAWN BY M. LANGONE

CHECKED BY E. MONGELLI APPROVED BY W. SCHULTHEISS PAVEMENT MARKING AND SIGNAGE IMPROVEMENT PLANS **CONSTRUCTION DETAILS** 

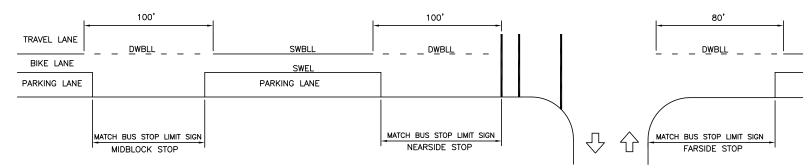
## **COMMONWEALTH AVENUE**

CITY OF BOSTON TRANSPORTATION DEPARTMENT

ENGINEERING DIVISION

BOSTON PROPER

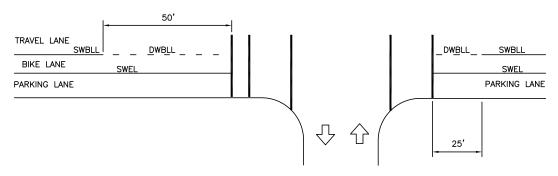
AREA: 1 DISTRICT: 8 DATE: MAR. 2010 DRAWING NO. D-001 SHEET 3 OF 22



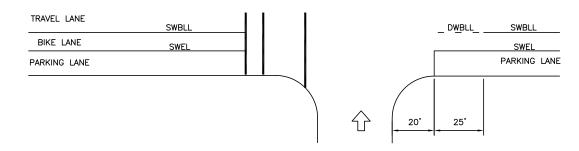
### NOTES:

1. MATCH BUS STOP LIMIT SIGN (I.E. SIGN WITH ARROW IN ONE DIRECTION). IF BUS STOP LIMIT SIGN DOES NOT EXIST, PLACE TRANSVERSE PARKING LINE AS DIRECTED BY THE ENGINEER.

> TYPICAL STRIPING WITH BUS STOPS (UNLESS OTHERWISE NOTED ON PLANS) NOT TO SCALE



TYPICAL INTERSECTION STRIPING WITH TWO-WAY STREET WITH CROSSWALKS AND/OR STOP LINES (UNLESS OTHERWISE NOTED ON PLANS) NOT TO SCALE



TYPICAL INTERSECTION STRIPING WITH ONE-WAY STREET WITH CROSSWALKS AND/OR STOP LINES (UNLESS OTHERWISE NOTED ON PLANS) NOT TO SCALE



Base Prepared by:









DESIGNED BY M. LANGONE DRAWN BY M. LANGONE CHECKED BY E. MONGELLI

DISTRICT: 8

PAVEMENT MARKING AND SIGNAGE IMPROVEMENT PLANS **CONSTRUCTION DETAILS** 

CITY OF BOSTON TRANSPORTATION DEPARTMENT

ENGINEERING DIVISION

**COMMONWEALTH AVENUE** 

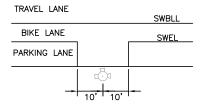
BOSTON PROPER

DATE: MAR. 2010 DRAWING NO. D-002 SHEET 4 OF 22

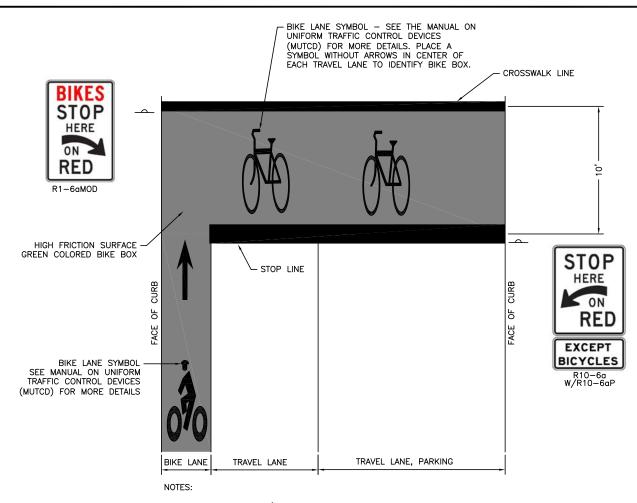
DIRECTOR OF ENGINEERING

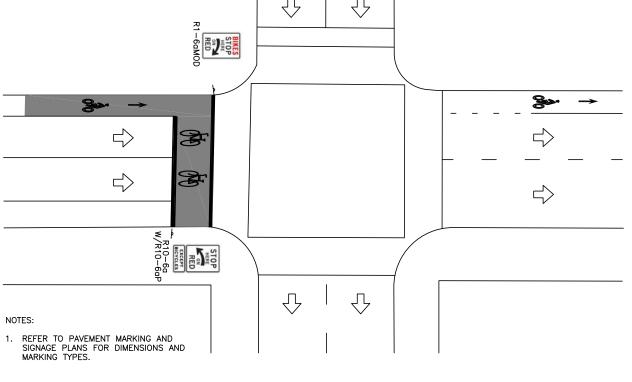
TRAVEL LANE SWBLL \_ DWBLL\_ BIKE LANE SWEL DWLL PARKING LANE PARKING LANE  $\bigcirc$ 20' 25' 20' 50'

> TYPICAL INTERSECTION STRIPING WITHOUT CROSSWALKS OR STOP LINES (UNLESS OTHERWISE NOTED ON PLANS) NOT TO SCALE



TYPICAL STRIPING WITH HYDRANTS (UNLESS OTHERWISE NOTED ON PLANS) NOT TO SCALE





TYPICAL BIKE BOX INTERSECTION NOT TO SCALE

- PLACE STOP LINE 10' IN ADVANCE OF CROSSWALK WITH R10-6a SIGN. BREAK STOP LINE AT BIKE LANE.
- 2. SEE PLAN SHEETS FOR BIKE BOX LOCATIONS.
- 3. DO NOT PLACE SYMBOLS ON LANE LINES, CROSSWALK LINES, OR STOP LINES.
- 4. PLACE BIKE LANE SYMBOLS WITHIN CENTER OF BIKE BOX.
- 5. SEE PLANS FOR BIKE BOX LOCATIONS AND SYMBOL LOCATIONS.

TYPICAL BIKE BOX PLACEMENT NOT TO SCALE



TYPICAL TEMPORARY BIKE BOX EDUCATIONAL SIGN NOT TO SCALE



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Land Surveying
Transportation Engineering





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APPROVED BY W. SCHULTHEISS

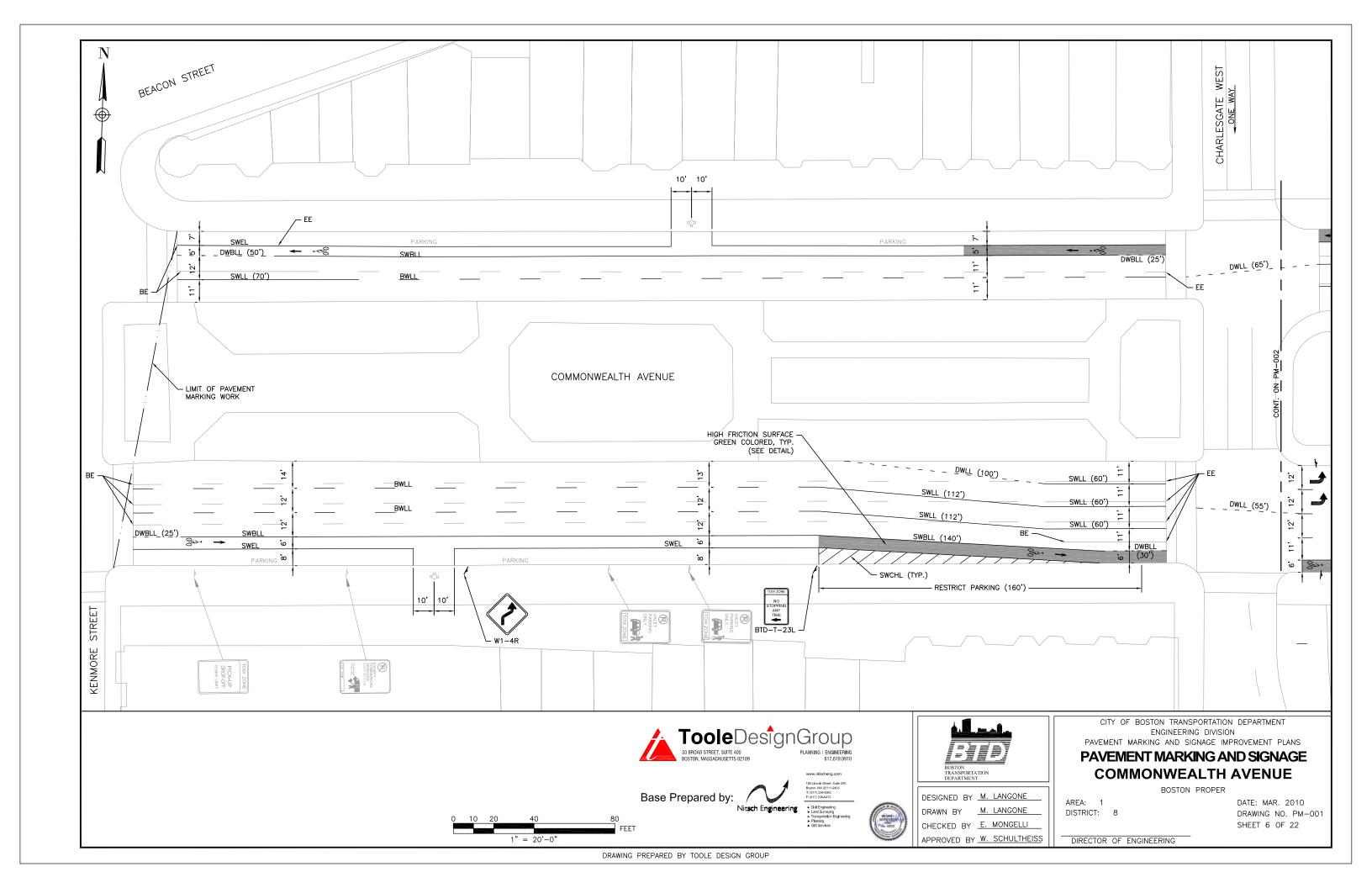
CITY OF BOSTON TRANSPORTATION DEPARTMENT ENGINEERING DIVISION PAVEMENT MARKING AND SIGNAGE IMPROVEMENT PLANS

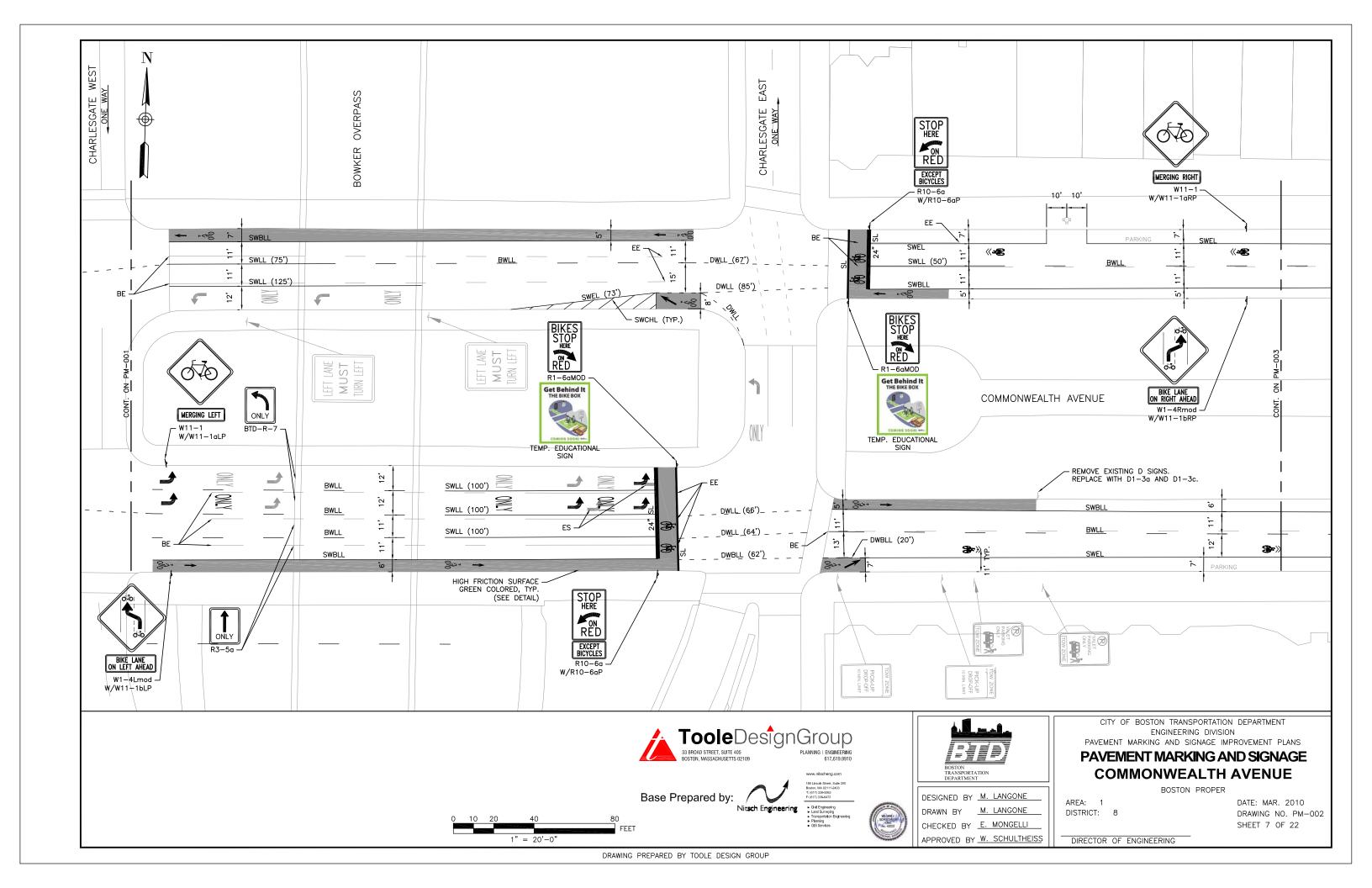
## CONSTRUCTION DETAILS COMMONWEALTH AVENUE

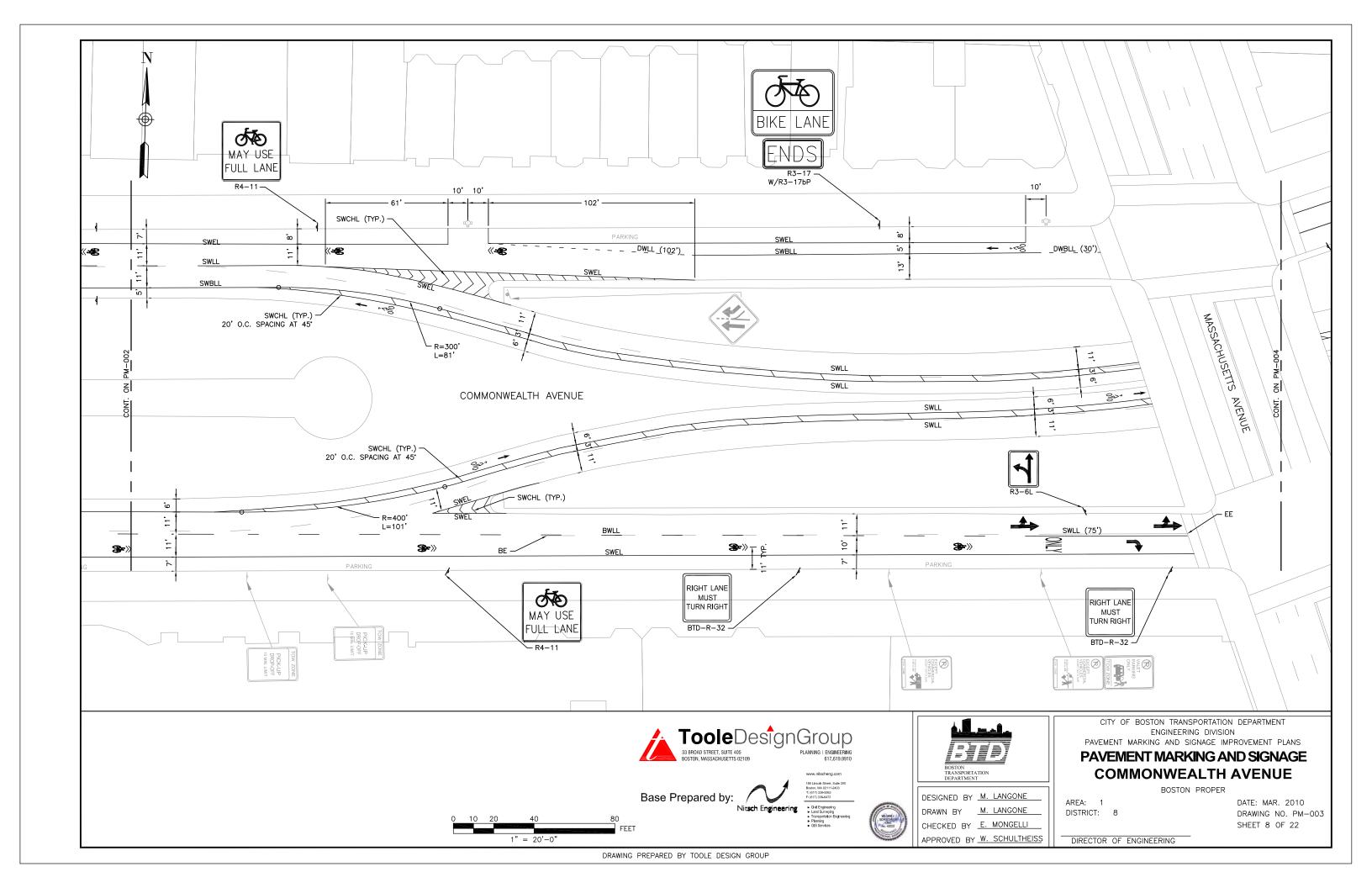
BOSTON PROPER

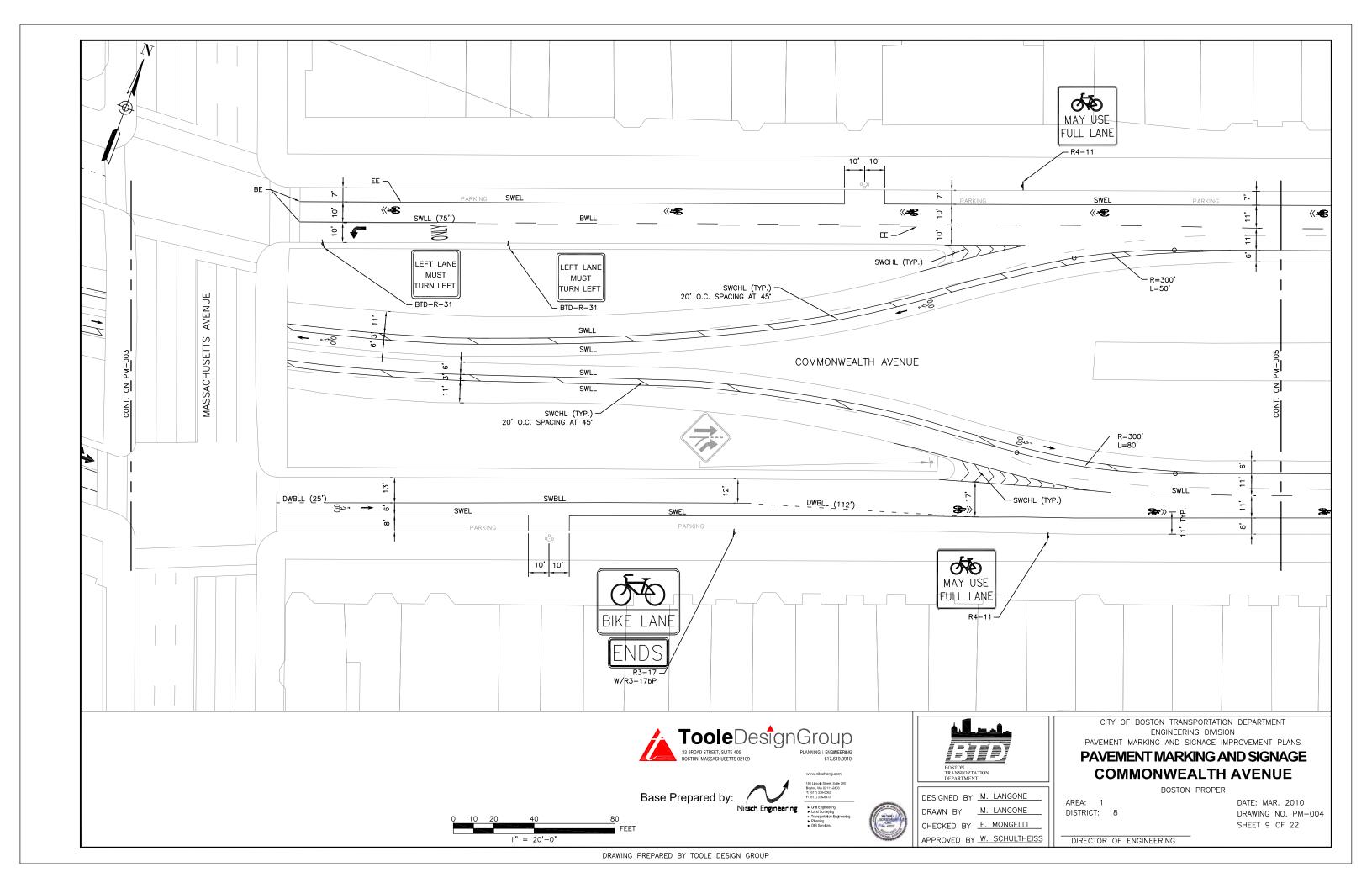
DISTRICT: 8

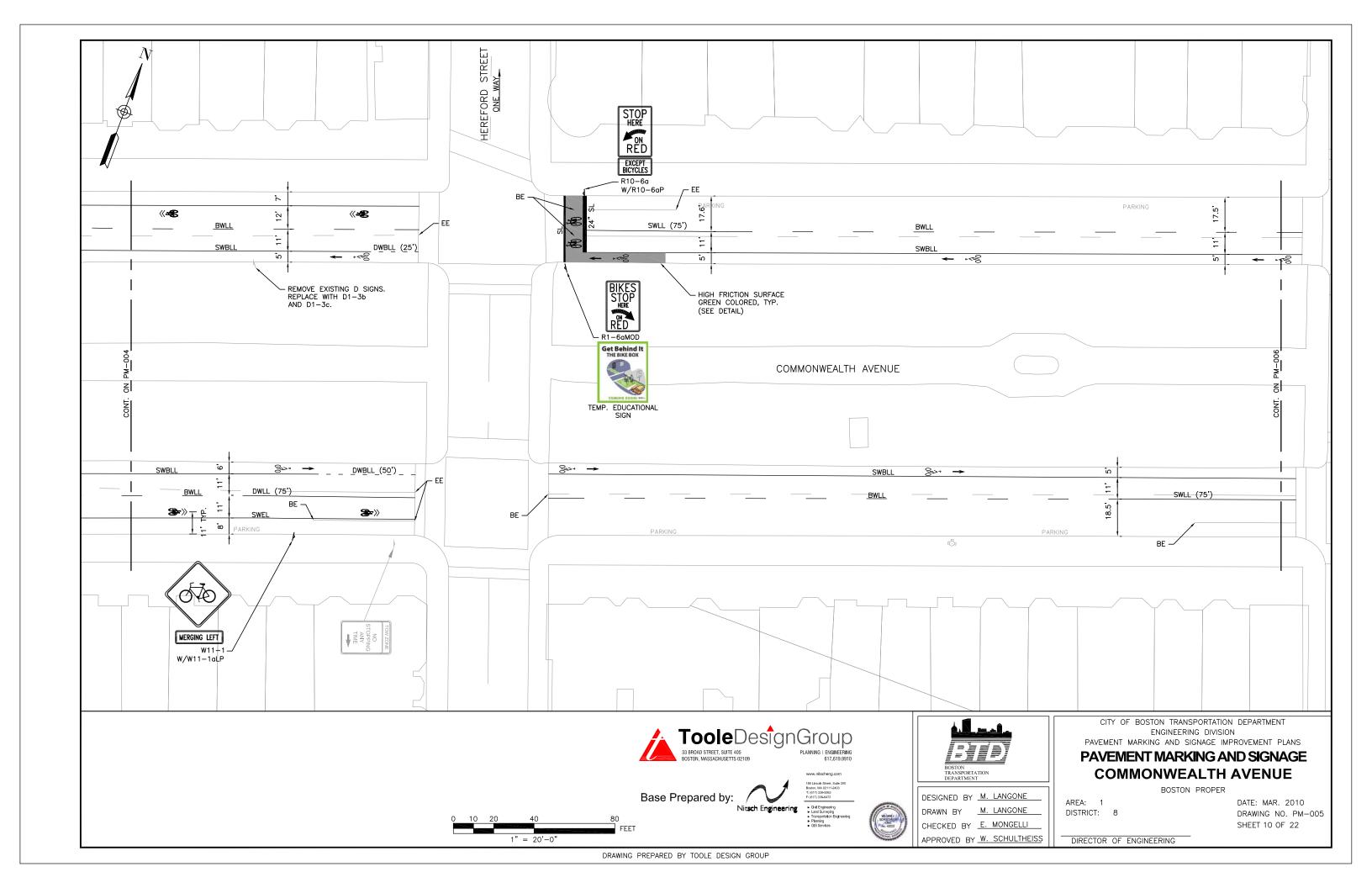
DATE: MAR. 2010 DRAWING NO. D-003 SHEET 5 OF 22

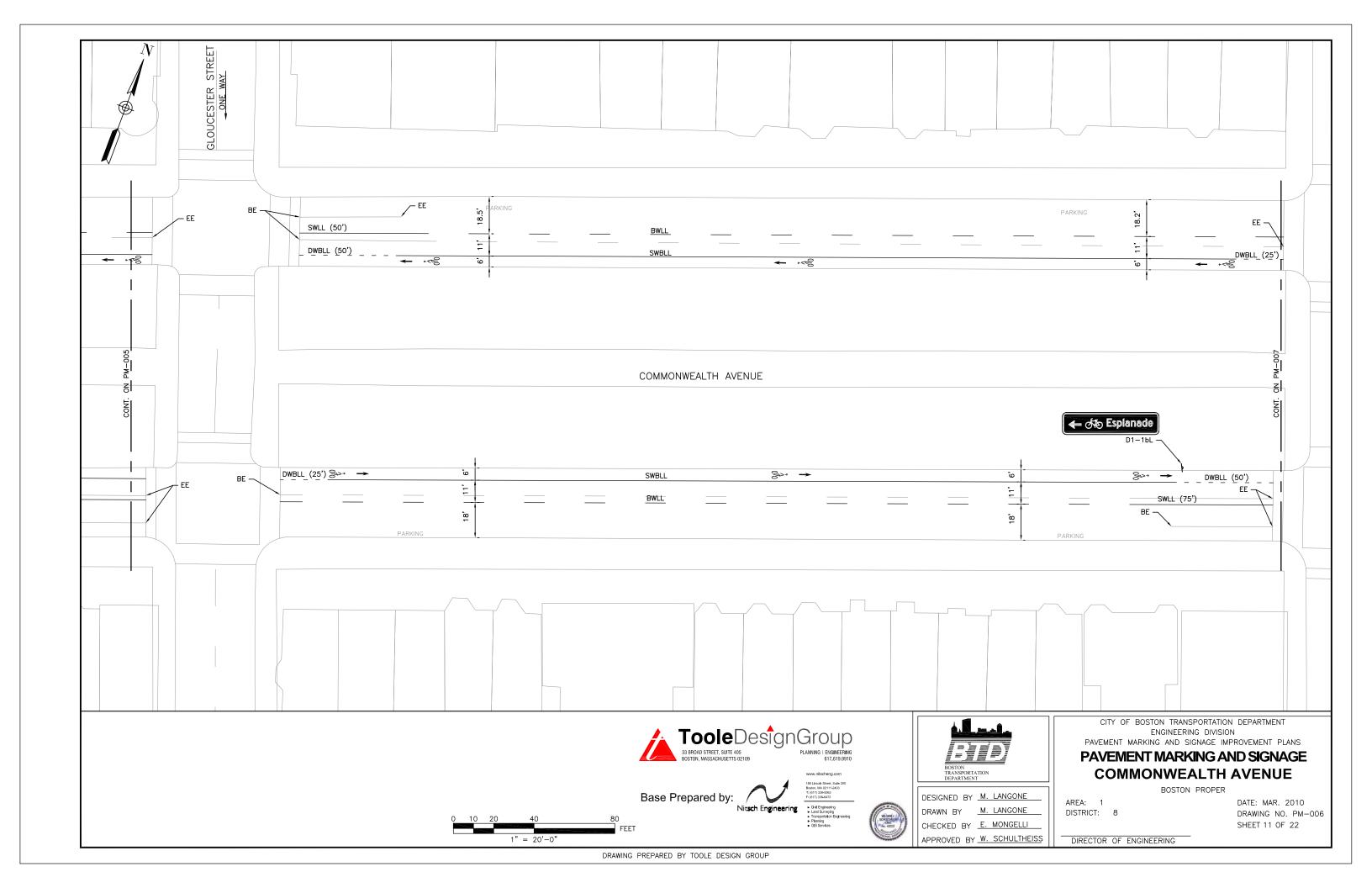


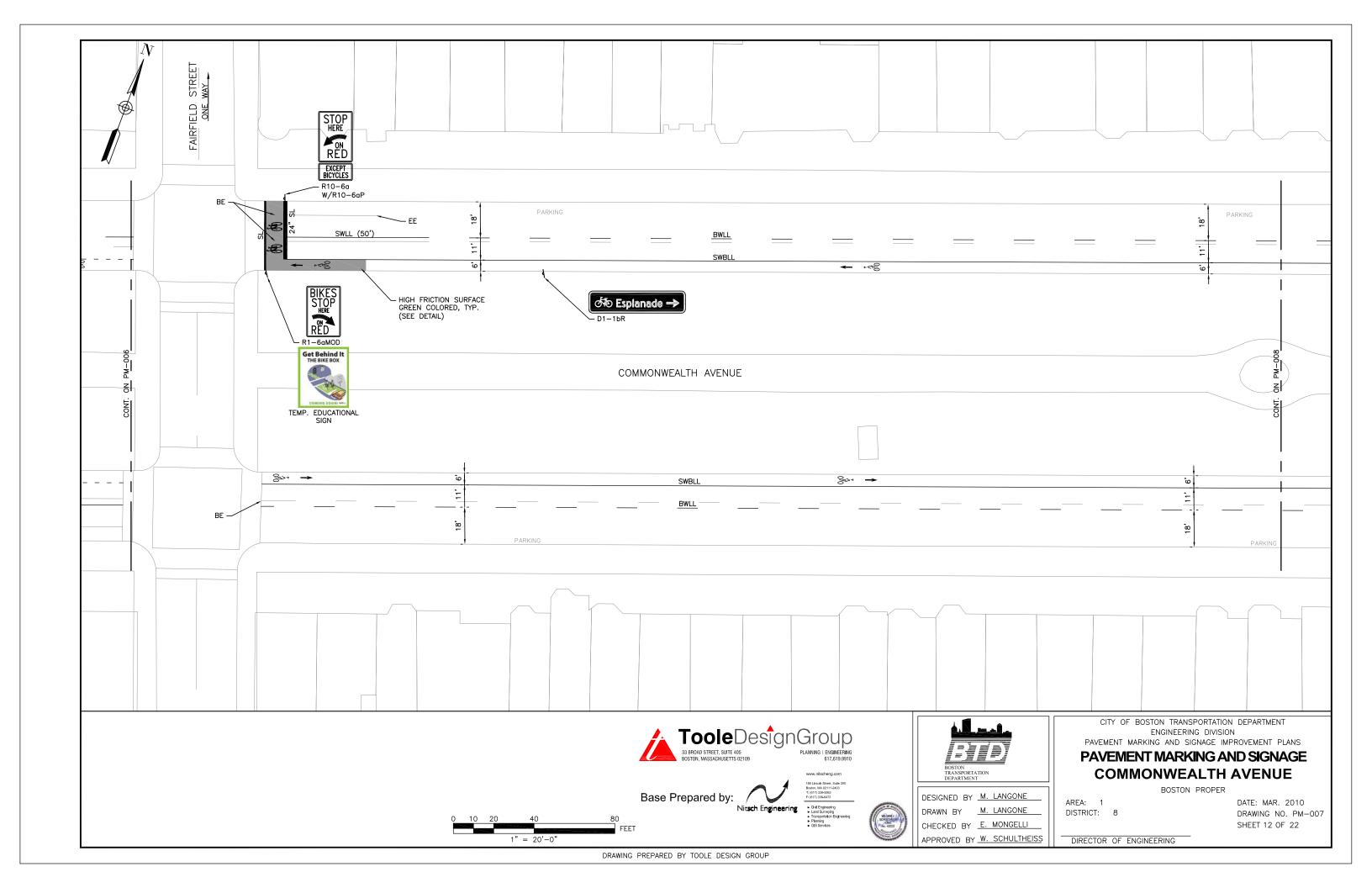


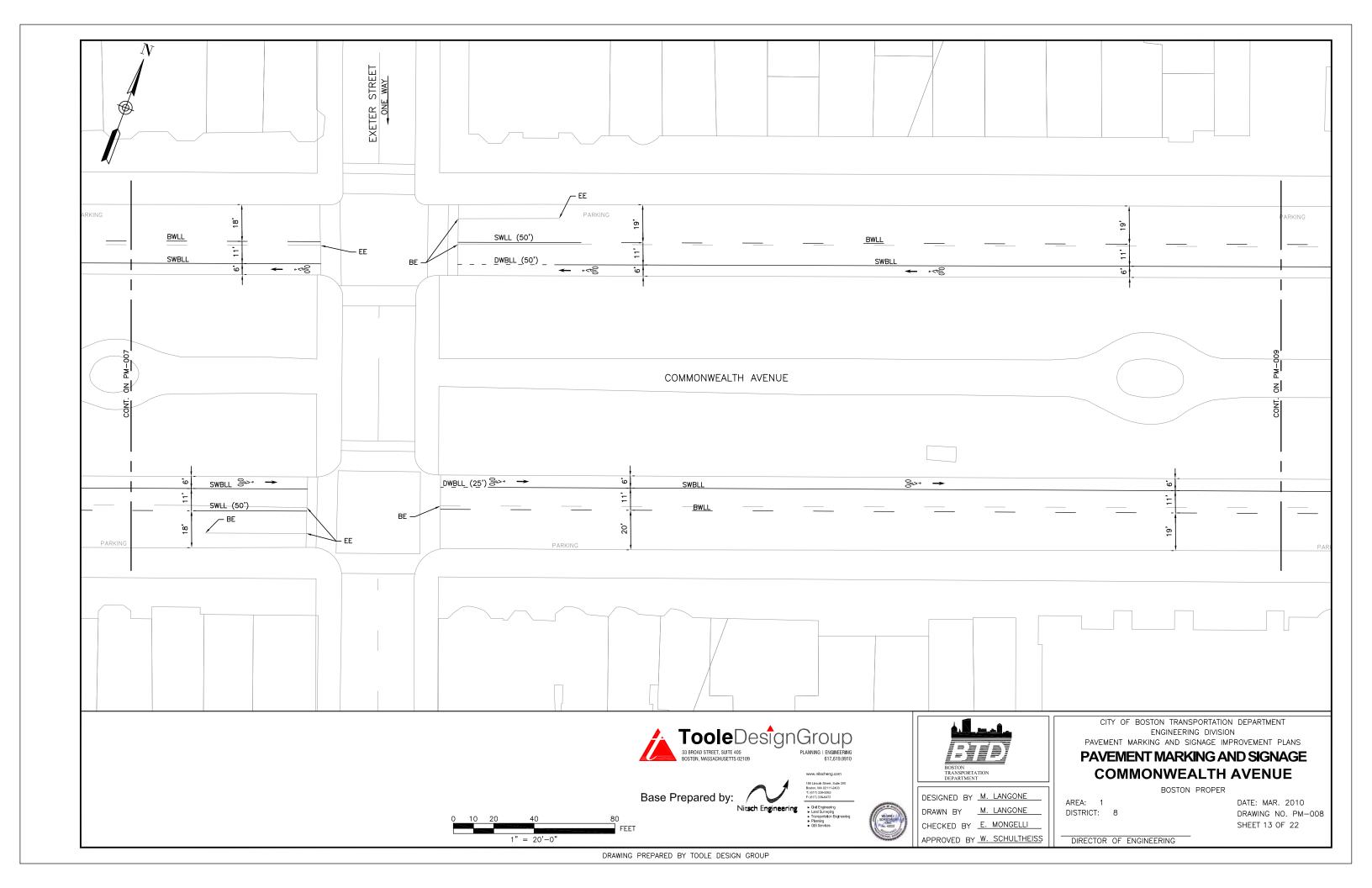


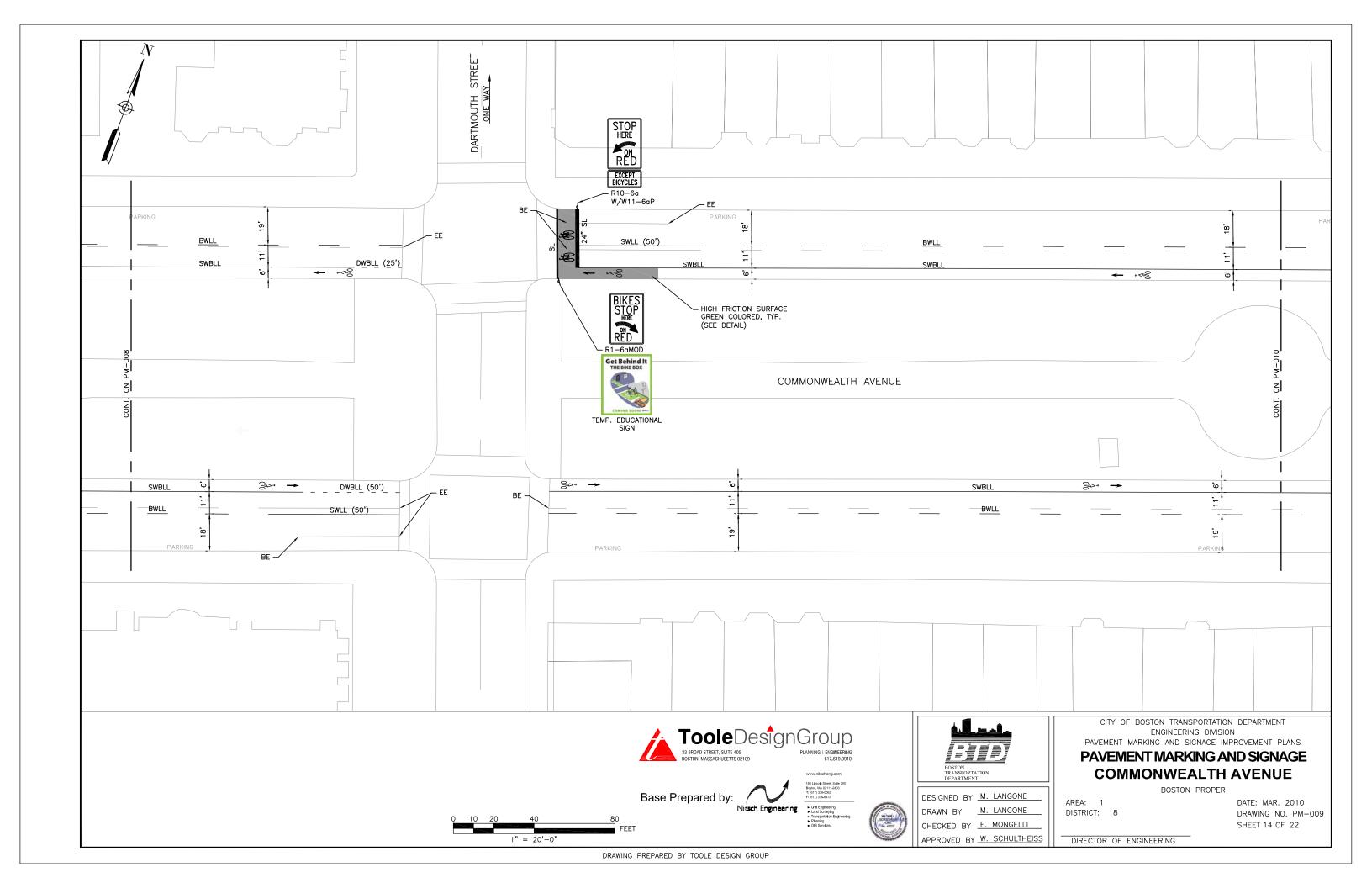


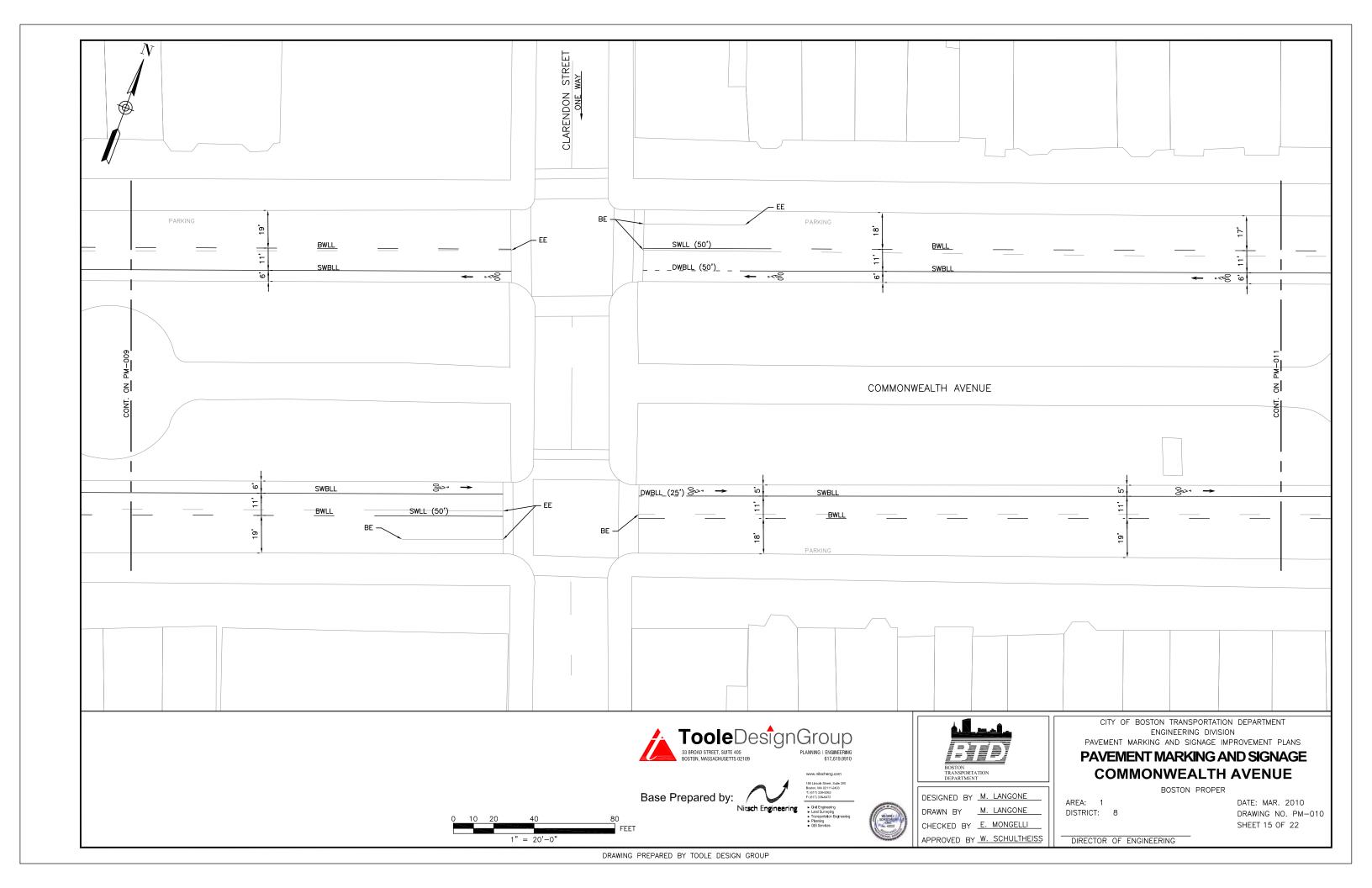


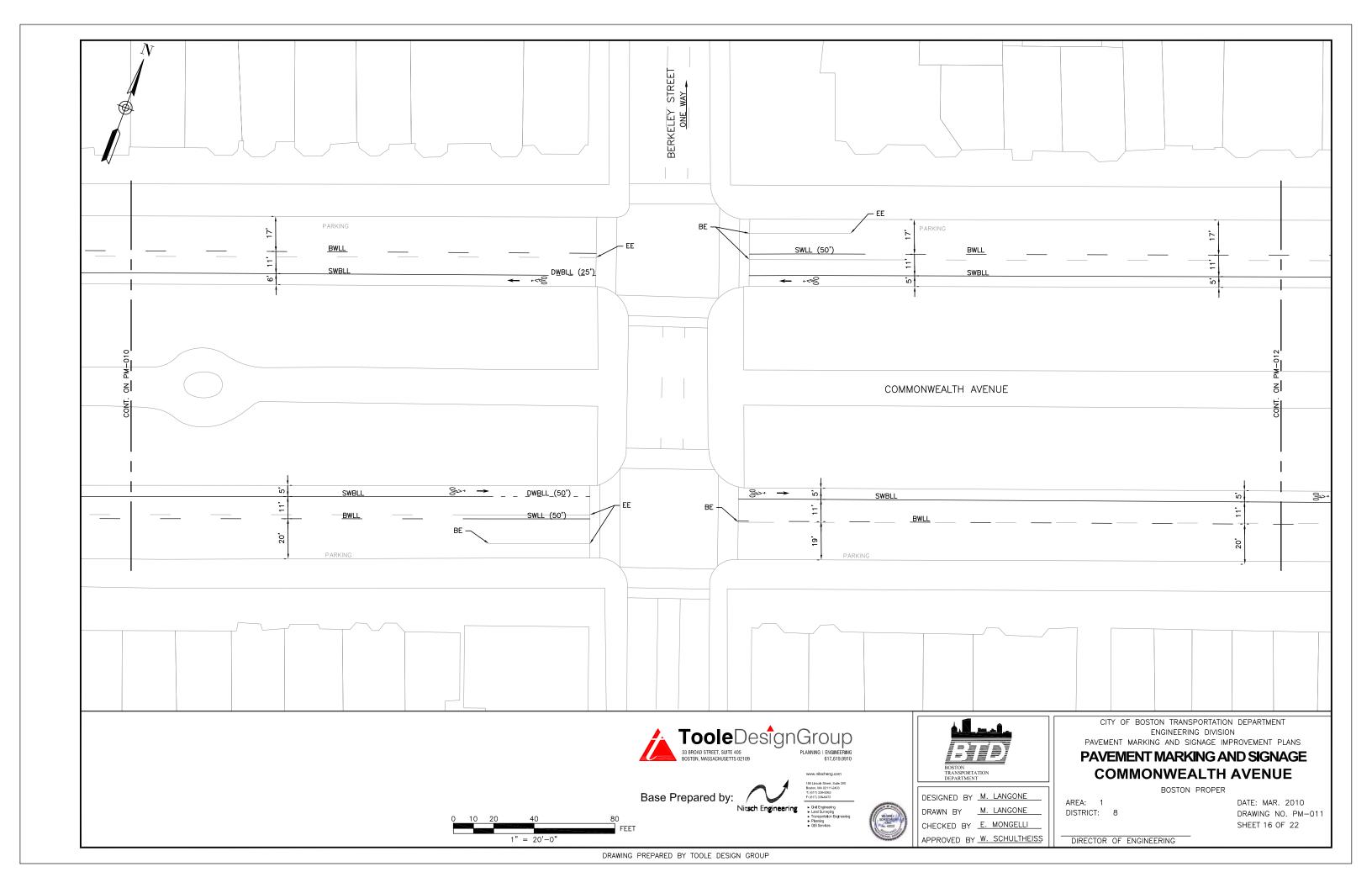


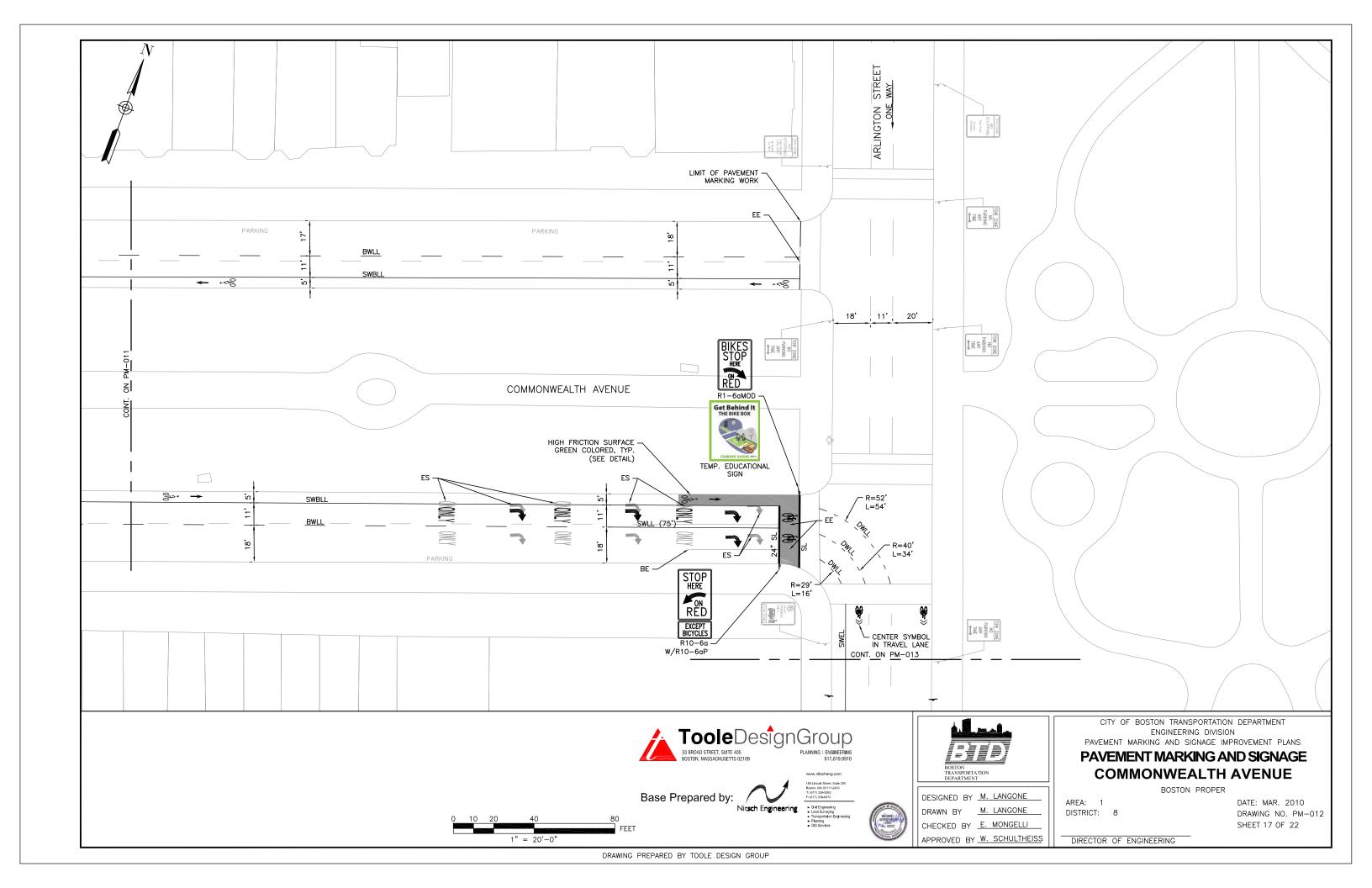


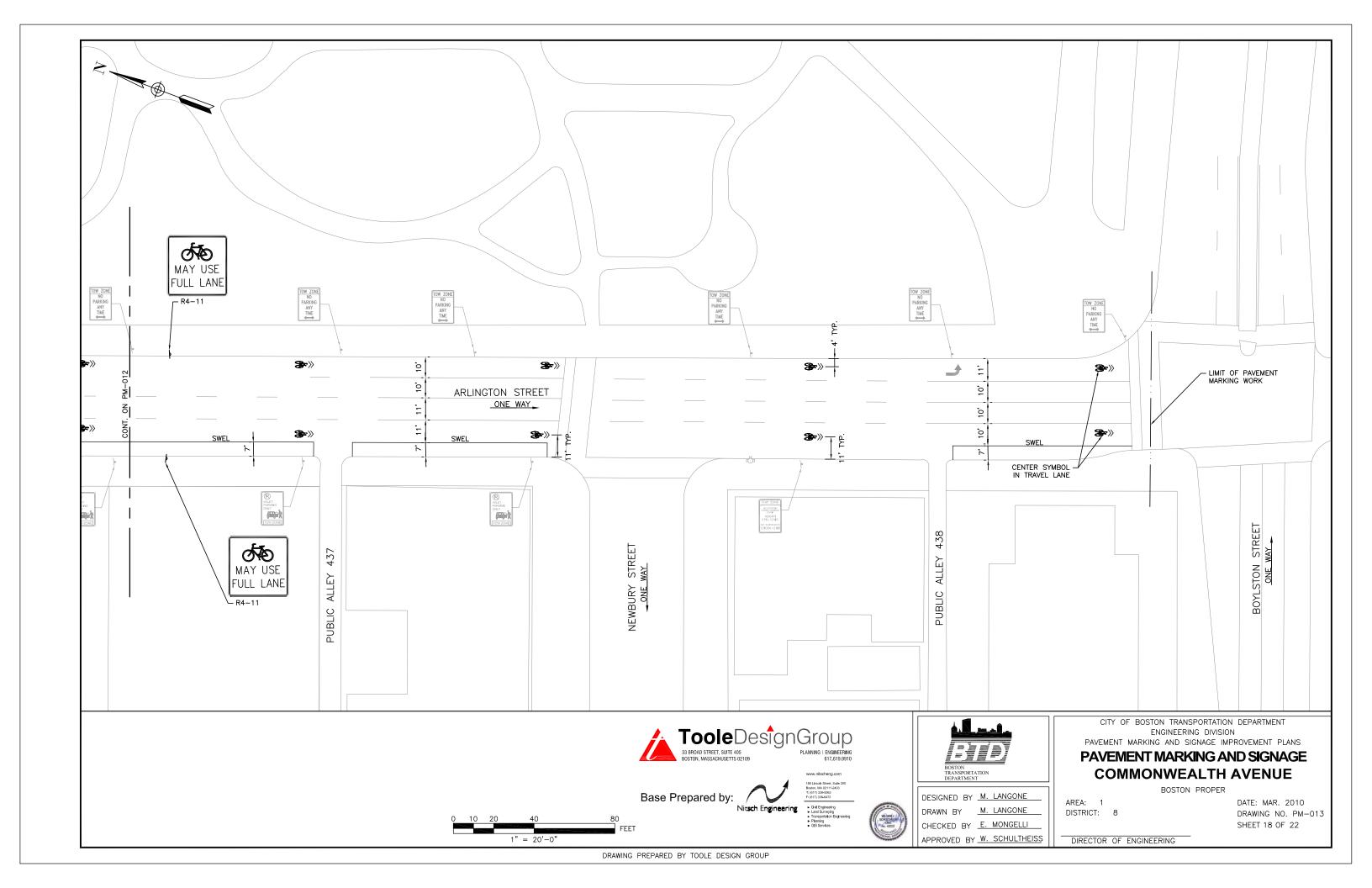












| IDENTIF—<br>ICATION<br>NUMBER | SIZE OF SIGN<br>(INCHES) |        | UNIT<br>AREA |                                    |                                                               |   | NUMBER<br>OF      |                                                               |  | POST SIZE<br>AND               | AREA IN        |
|-------------------------------|--------------------------|--------|--------------|------------------------------------|---------------------------------------------------------------|---|-------------------|---------------------------------------------------------------|--|--------------------------------|----------------|
|                               | WIDTH                    | HEIGHT | SF           | TEXT                               | TEXT DIMENSIONS                                               |   | SIGNS<br>REQUIRED | NS COLOR                                                      |  | NUMBER<br>REQUIRED<br>PER SIGN | SQUARE<br>FEET |
| BTD-R-7                       | 18"                      | 24"    | 3.00         | ONLY                               | SEE BOSTON<br>TRANSPORTATION<br>DEPARTMENT<br>STANDARD DETAIL |   | 2                 | SEE BOSTON<br>TRANSPORTATION<br>DEPARTMENT<br>STANDARD DETAIL |  | MOUNT<br>ON BRIDGE             | 6.0            |
| BTD-R-31                      | 24"                      | 24"    | 4.00         | LEFT LANE<br>MUST<br>TURN LEFT     |                                                               |   | 2                 |                                                               |  | P5(1)                          | 8.0            |
| BTD-R-32                      | 24"                      | 24"    | 4.00         | RIGHT LANE<br>MUST<br>TURN RIGHT   |                                                               |   | 2                 |                                                               |  | P5(1)                          | 8.0            |
| BTD-T-23L                     | 12"                      | 18"    | 1.50         | NO<br>STOPPING<br>ANY<br>TIME      |                                                               |   | 1                 |                                                               |  | P5(1)                          | 1.5            |
| R10-6a                        | 18"                      | 24"    | 3.00         | STOP<br>HERE<br>ON<br>RED          |                                                               |   | 6                 |                                                               |  | P5(1)                          | 18.0           |
| R3-5a                         | 18"                      | 24"    | 3.00         | ONLY                               |                                                               |   | 2                 |                                                               |  | MOUNT<br>ON BRIDGE             | 6.0            |
| R3-6L                         | 18"                      | 24"    | 3.00         | 7                                  |                                                               |   | 1                 |                                                               |  | P5(1)                          | 3.0            |
| R3-17                         | 30"                      | 24"    | 5.00         | BIKE LANE                          |                                                               |   | 2                 |                                                               |  | P5(1)                          | 10.0           |
| R3-17bP                       | 30"                      | 12"    | 2.50         | ENDS                               |                                                               |   | 2                 |                                                               |  | MOUNT<br>W/R3-17               | 5.0            |
| R4-11                         | 30"                      | 30"    | 6.25         | MAY USE<br>FULL LANE               |                                                               |   | 6                 |                                                               |  | P5(1)                          | 37.5           |
| R1-6aMOD                      | 24"                      | 36"    | 6.00         | BIKES<br>STOP<br>LESE<br>OR<br>RED |                                                               |   | 6                 |                                                               |  | P5(1)                          | 36.0           |
| R10-6aP                       | 24"                      | 18"    | 3.00         | EXCEPT<br>BICYCLES                 |                                                               |   | 6                 |                                                               |  | MOUNT W/<br>R10-6a             | 18.0           |
| TEMP SIGN                     | 15"                      | 18"    | 1.88         | Get Bohind It<br>THE BIXE BOX      |                                                               | , | 6                 |                                                               |  | MOUNT W/<br>R1-6aMOD           | 11.3           |

| IDENTIF—<br>ICATION<br>NUMBER |     | OF SIGN<br>HES) | UNIT<br>AREA<br>SF | TEXT                        | TEXT DIMENSIONS                                               |  | NUMBER<br>OF<br>SIGNS<br>REQUIRED | COLOR                                                         |   | POST SIZE<br>AND<br>NUMBER<br>REQUIRED<br>PER SIGN | AREA IN<br>SQUARE<br>FEET |
|-------------------------------|-----|-----------------|--------------------|-----------------------------|---------------------------------------------------------------|--|-----------------------------------|---------------------------------------------------------------|---|----------------------------------------------------|---------------------------|
| W1-4R                         | 24" | 24"             | 4.00               |                             | SEE BOSTON<br>TRANSPORTATION<br>DEPARTMENT<br>STANDARD DETAIL |  | 1                                 | SEE BOSTON<br>TRANSPORTATION<br>DEPARTMENT<br>STANDARD DETAIL |   | P5(1)                                              | 4.0                       |
| W1-4Rmod                      | 24" | 24"             | 4.00               |                             | SEE SHEET SS-002<br>FOR DETAIL                                |  | 1                                 | SEE SHEET SS-002<br>FOR DETAIL                                |   | P5(1)                                              | 4.0                       |
| W1-4Lmod                      | 24" | 24"             | 4.00               |                             | SEE SHEET SS-002<br>FOR DETAIL                                |  | 1                                 | SEE SHEET SS-002<br>FOR DETAIL                                |   | P5(1)                                              | 4.0                       |
| W11-1                         | 24" | 24"             | 4.00               | (070)                       | SEE BOSTON<br>TRANSPORTATION<br>DEPARTMENT<br>STANDARD DETAIL |  | 3                                 | SEE BOSTON<br>TRANSPORTATION<br>DEPARTMENT<br>STANDARD DETAIL |   | P5(1)                                              | 12.0                      |
| W11-1aRP                      | 36" | 12"             | 3.00               | MERGING RIGHT               | SEE SHEET SS-002<br>FOR DETAIL                                |  | 1                                 | SEE SHEET SS-002<br>FOR DETAIL                                |   | MOUNT<br>W/W11-1                                   | 3.0                       |
| W11-1aLP                      | 30" | 12"             | 2.50               | MERGING LEFT                |                                                               |  | 2                                 |                                                               |   | MOUNT<br>W/W11-1                                   | 5.0                       |
| W11-1bRP                      | 36" | 18"             | 4.50               | BIKE LANE<br>ON RIGHT AHEAD |                                                               |  | 1                                 |                                                               |   | MOUNT W/<br>W1-4Rmod                               | 4.5                       |
| W11-1bLP                      | 36" | 18"             | 4.50               | BIKE LANE<br>ON LEFT AHEAD  |                                                               |  | 1                                 |                                                               |   | MOUNT W/<br>W1-4Lmod                               | 4.5                       |
| D1-1bR                        | 30" | 6"              | 1.25               | ර්ච Esplanade →             | SEE SHEET SS-003<br>FOR DETAIL                                |  | 1                                 | SEE SHEET SS-003<br>FOR DETAIL                                |   | P5(1)                                              | 1.3                       |
| D1-1bL                        | 30" | 6"              | 1.25               | ← がし Esplanade              |                                                               |  | 1                                 |                                                               |   | P5(1)                                              | 1.3                       |
| D1-3a                         | 42" | 36"             | 10.50              | 2 EAST Downtown LEFT LANE   |                                                               |  | 1                                 |                                                               |   | USE EX.<br>POST                                    | 10.5                      |
| D1-3b                         | 42" | 36"             | 10.50              | WEST Kenmore Sq LEFT LANE   |                                                               |  | 1                                 |                                                               |   | USE EX.<br>POST                                    | 10.5                      |
| D1-3c                         | 42" | 36"             | 10.50              | Mass Ave<br>RIGHT LANE      |                                                               |  | 2                                 |                                                               | , | USE EX.<br>POST                                    | 21.0                      |



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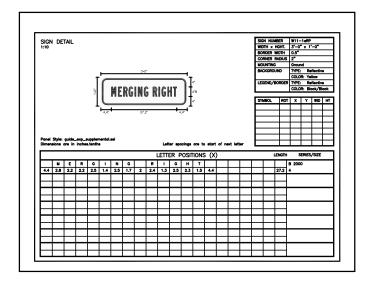
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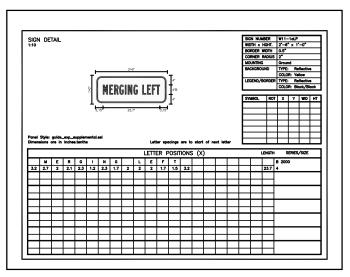
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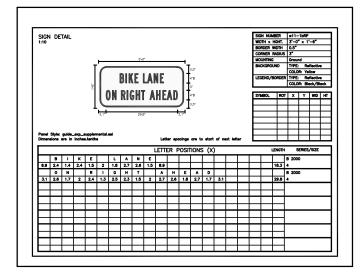
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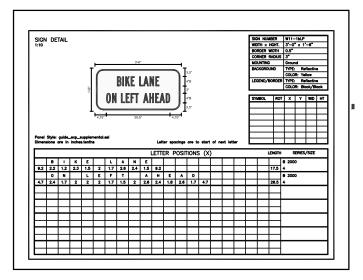
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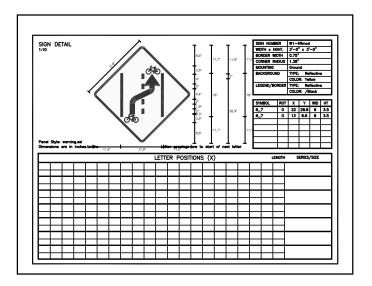
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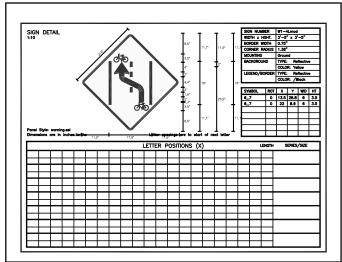


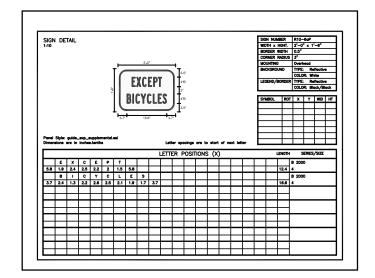




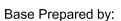














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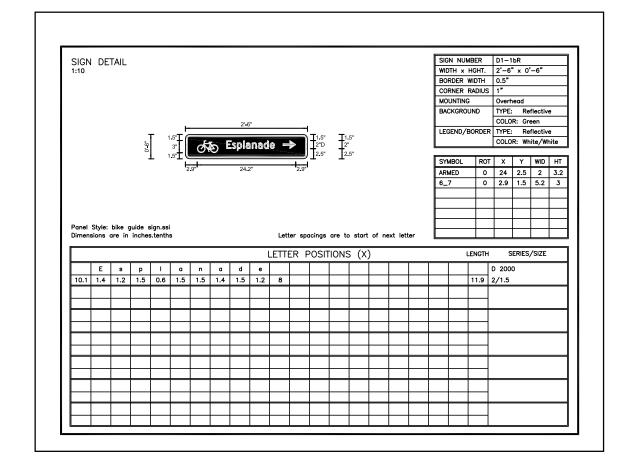
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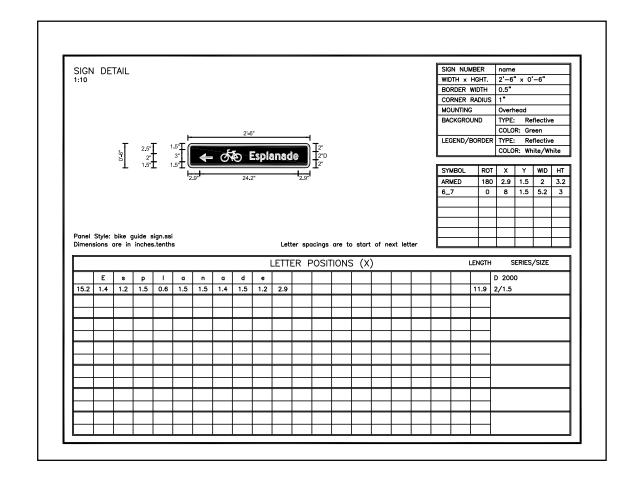
## TRAFFIC SIGN SUMMARY DETAILS COMMONWEALTH AVENUE

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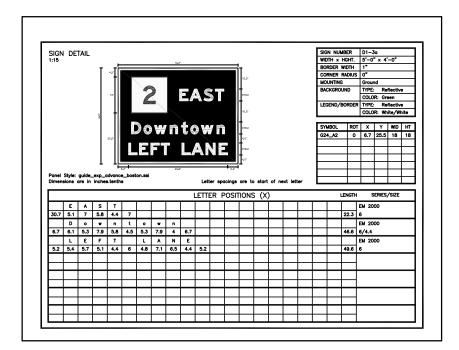
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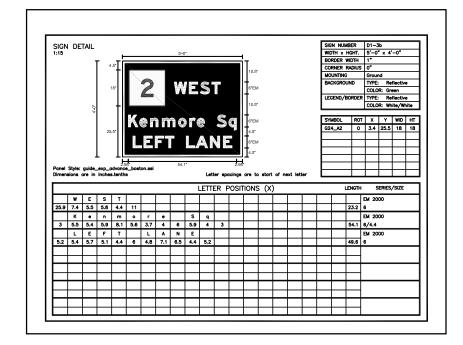
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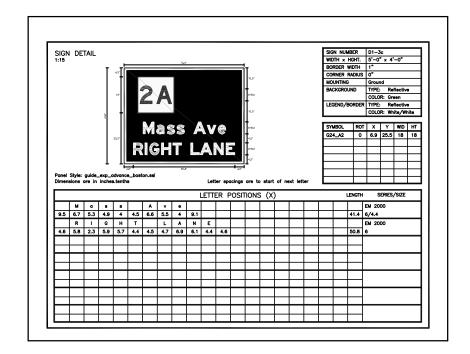
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